

Claim 2. (Amended) [A] The mobile plant as claimed in claim 1, [characterized in that] wherein at least one of the layers has substantially the same coefficient of thermal expansion as the solid insulation.

Claim 3. (Amended) [A] The mobile plant as claimed in [either of claims 1 or 2, characterized in that] claim 1, wherein the [insulation is built up of] winding comprises a cable [(6) intended] for high voltage [and comprising] including one or more current-carrying conductors [(12)] surrounded by the [at least one semi-conducting layer [(13, 15)] with intermediate insulating layer [(14)] of solid] insulation system.

Claim 4. (Amended) [A] The mobile plant as claimed in claim 3, [characterized in that] wherein the innermost semiconducting layer [(13)] is at substantially the same potential as the conductor(s) [(12)].

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Claim 6. (Amended) [A] The mobile plant as claimed in claim [5, characterized in that] 1, wherein said outer semiconducting layer [(15)] is connected to a selected potential.

Claim 7. (Amended) [A] The mobile plant as claimed in claim 6 [characterized in that] wherein the selected potential is earth potential.

Claim 8. (Amended) [A] The mobile plant as claimed in [characterized in that] claim 3, wherein at least two of said layers have substantially the same coefficient of thermal expansion.

Claim 9. (Amended) [A] The mobile plant as claimed in [any of claims 3-5, [characterized in that] claim 3, wherein the current carrying conductor comprises a plurality of [strands, only a few of the strands] conductive elements, and a selected number of said conductive elements being uninsulated from each other.

Claim 10. (Amended) [A] The mobile plant as claimed in [any of claims 1-9, characterized in that] claim 1, wherein the winding consists of a cable comprising one or more current-carrying conductors [(12)], each conductor consisting of a number of strands, an inner semiconducting layer [(13)] being arranged around each conductor, an insulating layer [(14)] of solid insulation being arranged around each inner semiconducting layer [(13)] and an outer semiconducting layer [(5)] being arranged around each insulating layer [(14)].

Claim 11. (Amended) The mobile plant as claimed in claim 1, wherein [An arrangement according to any of claims 1-10, characterized in that] said layers [(13, 14, 15)] are arranged to adhere to one another even when the insulated conductor or cable is bent.

Claim 12. (Amended) [A] The mobile plant as claimed in claim 10, [characterized in that] wherein the cable [also comprises] includes a metal screen and a sheath.

Claim 13. (Amended) [A] The mobile plant as claimed in [any of the preceding claims, characterized in that] claim 1, wherein the magnetic circuit is arranged in a rotating electric machine, the stator [(3)] of which is cooled at earth potential.

Claim 14. (Amended) [A] The mobile plant as claimed in [any of the preceding claims, characterized in that] claim 1, wherein the machine includes a stator having slots and magnetic circuit [of the electric machine comprises a stator winding placed in a] slot [(5)] being [designed] formed as a number of cylindrical openings [(7)] running axially and radially outside each other, having substantially circular cross section and separated by narrow waist parts [(8)] between the cylindrical openings for receiving the windings thereon.

Claim 15. (Amended) [A] The mobile plant as claimed in claim 14, [characterized in that] wherein the [phases of the stator winding are] stator includes a plurality of Y-connected phases.

✓ spec? Claim 16. (Amended) [A] The mobile plant as claimed in claim 15 [characterized in that] wherein the phases have a common Y-point [of the stator winding is] being insulated from earth potential or connected to each potential via a high-ohmic impedance and protected from over-voltages by means of surge arresters.

spec? Claim 17. (Amended) [A] The mobile plant as claimed in claim 15, [characterized in that] wherein the phases have a common Y-point [of the stator winding is] for connection to earth via a suppression filter of third harmonic type[, which suppression filter is designed to greatly reduce or eliminate] for reducing third harmonic currents in the electric machine at the same time as being dimensioned to limit voltages and currents in the event of faults in the plant.

spec? Claim 18. (Amended) [A] The mobile plant as claimed in claim 17, [characterized in that] wherein the suppression filter is protected from over-voltages by means of surge arresters, the latter being connected in parallel with the suppression filter.

spec? Claim 19. (Amended) [A] The mobile plant as claimed in [claims 3 and 15, [characterized in that] claim 3, wherein the cable [(6) constituting] forming the stator winding has a gradually decreasing insulation seen from the high-voltage side[towards the Y-point].

spec? Claim 20. (Amended) [A] The mobile plant as claimed in claim 19, [characterized in that] wherein the gradual decrease in the insulation thickness is step-wise or continuous.

Claim 21. (Amended) [A] The mobile plant as claimed in [claims 14 and 19, characterized in that] claim 14, wherein the circular cross section [(7)] of the substantially cylindrical openings in the slots [(5)] for the stator winding has decreasing radius[seen from the yoke portion towards the door].

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Claim 23. (Amended) [A] The mobile plant as claimed in claim [22, characterized in that] 1, wherein the machine can be started from a local power supply.

Claim 24. (Amended) [A] The mobile plant as claimed in claim 23, [characterized in that] wherein the machine has two or more poles.

Claim 25. (Amended) [A] The mobile plant as claimed in claim 24, [characterized in that] wherein the rotor [(2)] and the stator [(3)] are so dimensioned that at nominal voltage, nominal power factor and over-excited operation, [the] thermally based current limits of stator and rotor are exceeded approximately simultaneously.

Claim 26. (Amended) [A] The mobile plant as claimed in claim 24, [characterized in that] wherein the rotor [(2)] and the stator [(3)] are so dimensioned that at nominal voltage, nominal power factor and over-excited operation, [the] thermally based stator current limit is exceeded before the thermally based rotor current limit has been exceeded.

Claim 27. (Amended) [A] The mobile plant as claimed in [either of claims 25 or 26, characterized in that] claim 25, having [it has] 100% overload capacity at nominal voltage, nominal power factor and at overexcited operation.

Claim 28. (Amended) [A] The mobile plant as claimed in claim 25 [or claim 26, characterized in that] wherein the rotor poles are pronounced.

Claim 29. (Amended) [A] The mobile plant as claimed in claim 28, [29, characterized in that] wherein the quadrature-axis synchronous reactance is [considerably] less than the direct-axis synchronous reactance.

Claim 30. (Amended) [A] The mobile plant as claimed in claim 29, [characterized in that] wherein the machine [is equipped with] includes excitation systems enabling both positive and negative excitation.

Claim 31. (Amended) [A] The mobile plant as claimed in [any of claims 3-30 characterized in that] claim 30, wherein the [cables (6) with solid insulation intended for high voltage have] cable has a conductor area between 30 and 3000 mm² and [have] an outer cable diameter of between 20 and 250 mm.

Claim 32. (Amended) [A] The mobile plant as claimed in [any of the preceding claims, characterized in that] claim 31, wherein the stator and rotor have circuits [(3, 2) are provided with] including cooling means in which the coolant is in liquid and/or gaseous form.

Claim 33. (Amended) [A] The mobile plant as claimed in [any of the preceding claims, characterized in that] claim 32, wherein the machine is arranged for connection to several different voltage levels.

Claim 34. (Amended) [A] The mobile plant as claimed in [any of the claims 1-33, characterized in that] claim 1, wherein the machine is [connected] directly connectable to the power network without any step-up transformer.

Claim 35. (Amended) [A] The mobile plant as claimed in [any of the preceding claims, characterized in that] claim 1, wherein the winding of the machine is arranged for self-regulating field control [and lacks] without auxiliary means for control of the field.

Claim 36. (Amended) [A] The mobile plant as claimed in [any of the preceding claims, characterized in that] claim 1, wherein the [winding has an] insulation system which, as regards its thermal and electrical properties, permits a voltage level in the machine exceeding 36 kV.

Claim 37. (Amended) [A] The mobile plant as claimed in [any of the preceding claims characterized in that] claim 1, wherein the plant is mounted on wheels.

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Claim 38. (Amended) The use of [a] the mobile plant according to [any of claims 1-37] claim 1, for phase compensation at different localities of a high voltage power network.

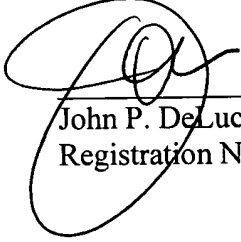
Claim 39. (Amended) A method for phase compensation in a high voltage power network [characterized in that] wherein a plant according to [any of claims 1-36] claim 1 is transported between different localities in the network for phase compensation at these different localities.

REMARKS

Applicants have amended the claims in order to delete the multiple dependencies therefrom and to place them in better U.S. format. In the event that any multiple dependencies remain in the claims, it is respectfully requested that said multiple dependencies be deleted and reference be made to the immediately preceding claim.

Examination on the merits is earnestly solicited.

Respectfully submitted,


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